

FIG. 1B

	101						150
Human	.....	.....	.....	.....	.....	.....	.....
Ahmad	LVEGEGPQNG	ERKVNWLGSK	EGLRWKEAML	THPLAFCGPA	CPPRCGPLMP		
Cichon	LVEGEGPQNG	ERKVNWLGSK	EGLRWKEAML	THPLAFCGPA	CPPRCGPLMP		
Rat	VVEGEGSRNG	ERKANWLGSK	EGLRWKEAML	AHPLAFCGPA	CPPRYGPLIP		
Mouse	LVEGEGPRNG	ERKGSWLGGK	EGLRWKEAML	AHPLAFCGPA	CPPRYGPLIP		
	151						200
Human	.....	.....	.....	.....	.....	.....	.....
Ahmad	EHS GGHLKSD	PVAFRPWHCP	FLLETKILER	APFWVPTCLP	PYLVSGLPPE		
Cichon	EHS GGHLKSD	PVAFRPWHCP	FLLETKILER	APFWVPTCLP	PYLVSGLPPE		
Rat	EHS SGHPKSD	PVAFRPLHCP	FLLETKILER	APFWVPTCLP	PYLMSSLPPE		
Mouse	EHS GGHPKSD	PVAFRPLHCP	FLLETKILER	APFWVPTCLP	PYLMSSLPPE		

FIG. 1C

	201		250
Human	.....	.....	.....
Ahmad	HPCDWPLTPH	PWVYSGGQPK	VPSAFSLGSK
Cichon	HPCDWPLTPH	PWVYSGGQPK	VPSAFSLGSK
Rat	RSYDWPLAPS	PWVYSGSQPK	VPSAFSLGSK
Mouse	RPYDWPLAPN	PWVYSGSQPK	VPSAFSLGSK
			FYYKDPSSIP
			RLAKEPLAAA
			GFYYKDPSSIP
			RLAKEPLAAA
			GFYYKDPSSIP
			RLAKEPLAAA
			GFYHKDPNII
			RPAKEPLAAS
			GFYHKDPNII
			RPAKEPLA..
	251		300
Human	EPGLFGLNSG	GHLQRAGEAE	RPSLHQRDGE
Ahmad	EPGLFGLNSG	GHLQRAGEAE	RPSLHQRDGE
Cichon	EPGLFGLNSG	GHLQRAGEAE	RPSLHQRDGE
Rat	ESGMLGLAPG	GHLQQACDAE	GPSLHQRDGE
Mouse	ESGMLGLAPG	GHLQQACESE	GPSLHQRDGE
			MGAGRQQNPC
			PLFLGQPDTV
			MGAGRQQNPC
			PLFLGQPDTV
			MGAGRQQNPC
			PLFLGQPDTV
			TGAGRQQNLC
			PVFLGYPDTV
			TGAGRQQNLC
			PVFLGYPDTV

FIG. 1D

	301				350
Human	PWTSWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR
Ahmad	PWTSWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR
Cichon	PWTSWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR
Rat	PRTPWPSCPP	GLVHTLGNVW	AGPGSNSFGY	QLGPPVTPRC	PSPGPPTPPG
Mouse	PRAPWPSCPP	GLVHSLGNIW	AGPGSNSLGY	QLGPPATPRC	PSPGPPTPPG
	351				400
		*			
Human	GCCSSYPPTK	GGDLGPCGKC	QEGLEGGASG	ASEPSEEVNK	ASGPRACPPS
Ahmad	GCCSSYPPTK	GGDLGPCGKC	QEGLEGGASG	ASEPSEEVNK	ASGPRACPPS
Cichon	GCCSSYPPTK	GGDLGPCGKC	QEGLEGGASG	ASEPSEEVNK	ASGPRACPPS
Rat	GCCSSHLPAR	EGDPGPCRKC	QDSPEGSSSG	PGESSEERNK	A.GSRASPPS
Mouse	GCCSSHLPAR	EGDLGPCRKC	QDSPEGSSSG	PGESSEERNK	A.DSRACPPS

FIG. 1E

401	450
HHTKLKKTWL	VARLRALKRA
HHTKLKKTWL	VARLRALKRA
HHTKLKKTWL	VARLRALKRA
HHTKLKKTWL	ATGLRALKRA
HHTKLKKTWL	ATGLRALKRA
HHTKLKKTWL	ATGLRALKRA
Human	GSPEVQGAMG
Ahmad	GSPEVQGAMG
Cichon	GSPEVQGAMG
Rat	GSPEVQGA.R
Mouse	GSPEVQGASR
451	500
SPAPKRPPDP	GNKDVDSGQH
SPAPKRPPDP	GNKDVDSGQH
SPAPKRPPDP	GNKDVDSGQH
GPAPKRPSHT	GSKA.EAQQQ
GPAPKRPSHP	GSKA.EAEQQ
Human	DEQKGPQDGQ
Ahmad	DEQKGPQDGQ
Cichon	DEQKGPQDGQ
Rat	EEQRGPRDGR
Mouse	EEQRGPRDGR

*

FIG. 1F

	501					550
Human	ASLQDPGLQD	IPCLLLPAKL	AQCQSCAQAA	GEGGHACHS	QQVRRSPLGG	
Ahmad	ASLQDPGLQD	IPCLALPAKL	AQCQSCAQAA	GEGGHACHS	QQVRRSPLGG	
Cichon	ASLQDPGLQD	IPCLALPAKL	AQCQSCAQAA	GEGGHACHS	QQVRRSPLGG	
Rat	IRLRESRLVD	TSCQHHLAGV	TQCPSCVQAA	GEVEILTSHS	QKSHKLPLEE	
Mouse	IRLQESRLVD	TSCQHHLAGV	TQCQSCVQAA	GEVGVLTHGS	QKSRRSPLLE	
		*				
	551					600
						*
Human	ELQQEEDTAT	NSSSEEGPGS	GPDSRLSTGL	AKHLLSGLGD	RLCRLLRER	
Ahmad	ELQQEEDTAT	NSSSEEGPGS	GPDSRLSTGL	AKHLLSGLGD	RLCRLLRER	
Cichon	ELQQEEDTAT	NSSSEEGPGS	GPDSRLSTGL	AKHLLSGLGD	RLCRLLRER	
Rat	KPL.EEDSCA	.TSEEGGGS.	SPEASINKGL	AKHLLSGLGD	RLCRLLRER	
Mouse	KQLEEDSSA	.TSEEGGGGP	GPEASINKGL	AKHLLSGLGD	RLCRLLRER	

FIG. 1G

						650
	*	*				
Human	EALAWAQREG	QGPVAVTGDSP	GIPRCCSRCH	HGLENTHWRC	PRCSHRLCVA	
Ahmad	EALAWAQRES	QGPVAVTEDSP	GIPRCCSRCH	HGLENTHWRC	PRCSHRLCVA	
Cichon	EALAWAQREG	QGPVAVTEDSP	GIPRCCSRCH	HGLENTHWRC	PRCSHRLCVA	
Rat	EALAWAQREG	QGPAMTEDSP	GIPHCCSRCH	HGLENTHWRC	SHCSHRLCVA	
Mouse	EALAWAQREG	QGPAMTEDSP	GIPHCCSRCH	HGLENTHWRC	SHCSHRLCVA	

						700
Human	CGRVAGTGRA	REKAGFQEQS	AEECTQEAGH	AACSLMLTQF	VSSQALAEELS	
Ahmad	CGRVAGTGRA	REKAGFQEQS	AEECTQEAGH	AACSLMLTQF	VSSQALAEELS	
Cichon	CGRVAGTGRA	REKAGFQEQS	AEECTQEAGH	AACSLMLTQF	VSSQALAEELS	
Rat	CGRIAGAGKN	REKTSREQR	TDDCAQEAGH	AACSLILTQF	VSSQALAEELS	
Mouse	CGRIAGAGKN	REKTSQEQH	TDDCAQEAGH	AACSLILTQF	VSSQALAEELS	

FIG. 1H

	701				750
Human	TAMHQVWVKF	DIRGHCPCQA	DARVWAPGDA	GQKKESTQKT	PPTPQPSCNG
Ahmad	TAMHQVWVKF	DIRGHCPCQA	DARVWAPGDA	GQKKESTQKT	PPTPQPSCNG
Cichon	TAMHQVWVKF	DIRGHCPCQA	DARVWAPGDA	GQKKESTQKT	PPTPQPSCNG
Rat	TVMHQVWAKF	DIRGHCFCQV	DARVWAPGDG	GQKKEPTEKT	PPAPQLSCNG
Mouse	TVMHQVWAKF	DIRGHCFCQV	DARVWAPGDG	GQKKEPTEKT	PPTPQPSCNG
	751				800
					*
Human	DTHRTKSIKE	ETPDSAETPA	EDRAGRPLP	CPSLCELLAS	TAVKLCCLGHE
Ahmad	DTHRTKSIKE	ETPDSAETPA	EDRAGRPLP	CPSLCELLAS	TAVKLCCLGHD
Cichon	DTHRTKSIKE	ETPDSAETPA	EDRAGRPLP	CPSLCELLAS	TAVKLCCLGHE
Rat	DSNRTKDIKE	ETPDSTESPA	EDRAGRSPLP	CPSLCELLAS	TAVKLCCLGHE
Mouse	DSNRTKDIKE	ETPDSTESPA	EDGAGRSPLP	CPSLCELLAS	TAVKLCCLGHD

FIG. 1I

	801				850
Human	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGPGL
Ahmad	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGPGL
Cichon	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGPGL
Rat	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGSGL
Mouse	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGSGL

	851				900
Human	RKGLGLPLSP	VRPRLPPPGA	LLWLQEPQPC	PRRGFHLFQE	HWRQGQPVLV
Ahmad	RKGLGLPLSP	VRPRLPPPGA	LLWLQEPQPC	PRRGFHLFQE	HWRQGQPVLV
Cichon	RKGLGLPLSP	VRPRLPPPGA	LLWLQEPQPC	PRRGFHLFQE	HWRQGQPVLV
Rat	RKGLSLPLSP	VRTQLSPPGA	LLWLQEPR..	PKHGFRLFQE	HWRQGQPVLV
Mouse	RKGLSLPLSP	VRTQLSPPGA	LLWLQEPR..	PKHGFHLFQE	HWRQGQPVLV

FIG. 1J

	901					950
			*			
Human	SGIQR TLQGN	LWGTEALGAL	GGQVQAL SPL	GPPQPSSLGS	TTFWEGFSWP	
Ahmad	SGIQR TLQGN	LWGTEALGAL	GGQVQAL SPL	APPQPSSLGS	TTFWEGFSWP	
Cichon	SGIQR TLQGN	LWGTEALGAL	GGQVQAL SPL	GPPQPSSLGS	TTFWEGFSWP	
Rat	SGIQKTLRLS	LWGMEALGTL	GGQVQTLTAL	GPPQPSTLDS	TAFWKGF SHP	
Mouse	SGIQKTLRLS	LWGMEALGTL	GGQVQTLTAL	GPPQPSTNLD	TAFWEGFSHP	
	951					1000
			*			
Human	ELRPKSDEGS	VLLLHRA LGD	EDTSRVENLA	ASLPLPEYCA	LHGKLN LASY	
Ahmad	ELRPKSDEGS	VLLLHRA FGD	EDTSRVENLA	ASLPLPEYCA	LHGKLN LASY	
Cichon	ELRPKSDEGS	VLLLHRA LGD	EDTSRVENLA	ASLPLPEYCA	LHGKLN LASY	
Rat	EARPKLDEGS	VLLLHRLPLGD	KDES RVENLA	SSLPLPEYCA	HQ GKLN LASY	
Mouse	ETRPKLDEGS	VLLLHRTLGD	KDASRVQNLA	SSLPLPEYCA	HQ GKLN LASY	

FIG. 1K

1001					1050
					*
	LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	SILVHADTPL
	LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	SILVHARTPL
	LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	SILVHADTPL
	LPLGLTLHPL	EPQLWAAAYGV	NSHRGHLGTK	NLCVEVSDLI	SILVHAEAOQL
	LPLGLTLHPL	EPQLWAAAYGV	NSHRGHLGTK	NLCVEVSDLI	SILVHAEAOQL

Human
Ahmad
Cichon
Rat
Mouse

1051					1100
*	PAWHRAQKDF	LSGLDGEGWL	SPGSQVSTVW	HVFRAQDAQR	IRRFLOMVCP
	PAWHEAQKDF	LSGLDGEGWL	SPGSQVSTVW	HVFRAQDAQR	IRRFLOMVCP
	PAWHRAQKDF	LSGLDGEGWL	SPGSQVSTVW	HVFRAQDAQR	IRRFLOMVCP
	PPWYRAQKDF	LSGLDGEGWL	SPGSQTSTVW	HVFRAQDAQR	IRRFLOMVCP
	PPWYRAQKDF	LSGLDGEGWL	SPGSQTSTVW	HVFRAQDAQR	IRRFLOMVCP

Human
Ahmad
Cichon
Rat
Mouse

FIG. 1L

Human	1101	AGAGALEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP	1150
Ahmad	|	AGAGALEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP	|
Cichon		AGAGALEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP	
Rat		AGAGTLEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP	
Mouse		AGAGTLEPGA	PGSCYLDAGL	RRRLREEWGV	SCWTLLQAPG	EAVLVPAGAP	

Human	1151	HQVQGLVSTV	SVTQHFLSPE	TSALSAQLCH	QGPSLPPDCH	LLYAQMDWAV	1200
Ahmad	|	HQVQGLVSTV	SVTQHFLSPE	TSALSAQLCH	QGASLPPDCH	LLYAQMDWAV	|
Cichon		HQVQGLVSTV	SVTQHFLSPE	TSALSAQLCH	QGPSLPPDCH	LLYAQMDWAV	
Rat		HQVQGLVSTI	SVTQHFLSPE	TSALSAQLCH	QGASLPPDHR	MLYAQMDRAV	
Mouse		HQVQGLVSTI	SVTQHFLSPE	TSALSAQLYH	QGASLPPDHR	MLYAQMDRAV	

FIG. 1M

	1201	1215	
Human	FQAVKVAVGT	LQEAK	
Ahmad	FQAVKVAVGT	LQEAK	
Cichon	FQAVKVAVGT	LQEAK	
Rat	FQAVKVAVGT	LQEAK	
Mouse	FQAVKAAVGA	LQEAK	